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~~43~~. A recombinant mammalian chromosome comprising a Group I intron encoded endonuclease site.

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~~44~~. The recombinant chromosome of claim ⁴⁵~~43~~, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

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~~45~~. The recombinant chromosome of claim ⁴⁶~~44~~, wherein said endonuclease site is a Class I I-endonuclease site.

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~~46~~. The recombinant chromosome of claim ⁴⁷~~45~~, wherein said Class I I-endonuclease site is selected from I-SceI, I-SceIV, I-CsmI, and I-PanI sites.

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~~47~~. The recombinant chromosome of claim ⁴⁸~~46~~, wherein said Class I I-endonuclease site is an I-SceI site.

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~~48~~. The recombinant chromosome of any of claims ⁴⁵⁻⁴⁹~~43-47~~, wherein said chromosome is a murine chromosome.

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~~49~~. The recombinant chromosome of claim ⁵⁰~~48~~, wherein said chromosome is a mouse chromosome.

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~~50~~. A recombinant mammalian cell comprising the recombinant chromosome of claim ⁴⁵~~48~~.

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~~51~~. The recombinant cell of claim ⁵²~~50~~, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-

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endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

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~~54~~ 52. The recombinant cell of claim ~~51~~, wherein said endonuclease site is a Class I I-endonuclease site.

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~~55~~ 53. The recombinant cell of claim ~~52~~, wherein said Class I I-endonuclease site is selected from I-SceI, I-SceIV, I-Csml, and I-PanI sites.

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~~56~~ 54. The recombinant cell of claim ~~53~~, wherein said Class I I-endonuclease site is an I-SceI site.

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~~57~~ 55. The recombinant cell of any of claims ~~50-54~~, wherein said cell is a murine cell.

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~~58~~ 56. The recombinant cell of claim ~~55~~, wherein said murine cell is a mouse cell.

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~~59~~ 57. The recombinant cell of claim ~~55~~, wherein said murine cell is a murine stem cell.

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~~60~~ 58. The recombinant cell of claim ~~57~~, wherein said murine stem cell is a mouse stem cell. --